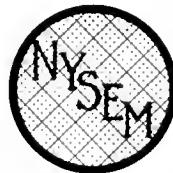


THE NEW YORK SOCIETY OF ELECTRON MICROSCOPISTS

THE
INTERNATIONAL BIBLIOGRAPHY
OF
ELECTRON MICROSCOPY

VOLUME I
1950 - 1955



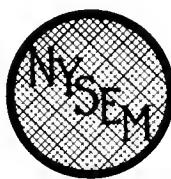
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VOLUME I
1950 - 1955



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P R E F A C E

This volume of The New York Society of Electron Microscopists' (NYSEM) International Bibliography of Electron Microscopy (IBEM) contains references to the literature published in the years 1950 through 1955. These were first published on edge-notch cards quarterly as they accumulated. References are also included that were found late and have been issued on the cards through June 1958. Republication in book form is intended to make the references again available now that complete sets of the cards have been exhausted and also to facilitate accessibility to the 4,054 references that occupy more than three linear feet in card form.

We have used this republication as an opportunity to check all references against the papers in the NYSEM reprint collection for accuracy of transcription and subject analysis. The whole has been edited for uniformity of style. All known previous errors have been corrected and despite our pains to avoid them, we cannot doubt that some new ones have been created. We shall be grateful for users bringing these to our attention.

The greatest problem in compiling the IBEM has been locating pertinent papers that are characteristically numerous and widely scattered in the total body of the scientific literature. We were fortunate in the performance of this indispensable task to have been able to enlist the assistance of several libraries. We are pleased to acknowledge the co-operation of Thomas P. Fleming and the staff of the Medical Library of the College of Physicians and Surgeons, Columbia University, New York City; Anna M. Sexton and the staff of the Library of the Division of Laboratories, New York State Department of Health, Albany, New York; Jacqueline Felter and the staff of the Library of the Memorial Center for Cancer and Allied Diseases, New York City, with the collaboration of Frances M. Mottram; and more recently the Library of the Institut für Elektronenmikroskopie, Düsseldorf, F.D.R. We have frequently drawn upon the resources of the Libraries of Columbia University and the Library of The Rockefeller Institute, both New York City, in the routine of compiling and editing the IBEM and gladly acknowledge our indebtedness to these institutions.

Two regional efforts on our behalf to attack the search problem at its source merit appreciative mention. The energy of W. Bernhard, Institute de Recherches sur le Cancer, Villejuif (Seine), in bringing the existence and needs of the IBEM

to the attention of French electron microscopists has resulted in a freely flowing stream of reprints from authors of newly published papers. From Switzerland regular collections of reprints from the entire country have been received at one time as a result of the industry of Alain Gautier, Secretary of the Section d'Optique et de Microscopie Electroniques of the Comité Suisse d'Optique. The widespread benefits of these endeavors is self-evident.

We are grateful to the thousands of microscopists who have generously responded to our requests for reprints. These reprints are the raw material from which the IBEM is constructed. They help to assure accurate references and subject analyses. We continue to believe, however, that without being solicited, investigators should promptly submit their reprints for indexing, feeling the same responsibility for securing bibliographic recognition of their work as they do for initially publishing their findings.

The NYSEM and particularly the IBEM were fostered at their inception by The New York Academy of Sciences through its Executive Director, Mrs. Eunice Thomas Miner, whose assistance and counsel are appreciatively recalled.

The IBEM was undertaken with a grant from the Lillia Babbitt Hyde Foundation. During the period that the number of subscribers was growing to the point where the IBEM would become self-supporting, the Hyde Foundation aided with further grants. This and the aid of the following organizations is gratefully acknowledged: Radio Corporation of America, Philips Electronics, Inc., Farrand Optical Co., Optical Film Co., and U. S. Public Health Service (Grant C-2725).

It is a pleasure to mention the following members of NYSEM whose personal contributions at various times have helped to assure the success of the IBEM:

Harry M. Allred	Councilman Morgan
Chester J. Calbick	George E. Palade
A. R. T. Denues	Keith R. Porter
Robert M. Fisher	Helmut Ruska
Marlene Friedlaender	Paul Skiba.

Kenneth T. Morse, Bibliographer
and
Dan H. Moore, Chairman
Bibliography Committee
April 9, 1959

I N T R O D U C T I O N

Scope This is a bibliography of the world literature on electron microscopy for the use of practicing electron microscopists. We have attempted to include all papers that report or review original research with or upon the electron microscope. Electron diffraction has been excluded, except for papers reporting instrumentation adapting the electron microscope for these studies, and for studies employing parallel diffraction and microscopic examination of specimens. Papers describing other types of microscopy not functioning with visible or ultra-violet have been included.

This first volume of a series of projected cumulations of references published earlier on edge-notched cards contains all references to papers published from 1950 through 1955 that were issued on cards through June 1958. Not intended to supersede the references currently being published on cards, the cumulations on pages, necessarily published after some delay to allow the fullest reporting of the most recent year's references, are a careful reworking of material published in haste previously, in a compact format.

Titles The titles of papers are rendered in the language of publication, except when that language is in a non-Roman alphabet or is a minor western European language. In these instances the title has been translated into English and the language of the original noted in parenthesis. The titles of abstracts are followed by the designation: (Abstract).

Journals The titles of journals have been abbreviated according to the style found first in reviewing the following sources in the order listed: List of Periodicals Abstracted by Chemical Abstracts (Columbus, Ohio), Current List of Medical Literature (Washington, D.C.), and World List of Scientific Periodicals (London, Butterworth).

References A reference consists of author(s), title, and an item number. The item number uniquely identifies a reference in relation to every other reference in the volume, and is the means of identifying the reference in the coauthor and subject indexes. In addition, when the reference is to a book, the place of publication, name of publisher, and year of publication are supplied. When the reference is to a paper in a journal, the abbreviated title of the journal is followed by the volume number, inclusive paging, and month and year of publication: 36:813-5. 9/53.

Arrangement In the body of the work, the references are arranged alphabetically by the name of the first author and then by additional authors if any. Two or more papers by the same author or sequence of coauthors are arranged chronologically by year of publication. Two or more papers by the same author or coauthors and published in the same year are arranged alphabetically by title.

Indexes Authors of works of multiple authorship, who are other than first authors, may be located by means of the Coauthor Index that follows the body of the work and identifies each coauthor's work by its item number. The Subject Index at the end of the volume is a classified list of terms developed by NYSEM for the IBEM. The user should familiarize himself with the entire list before attempting to use any part of it, so that he will be aware of the logical relationship existing between terms.

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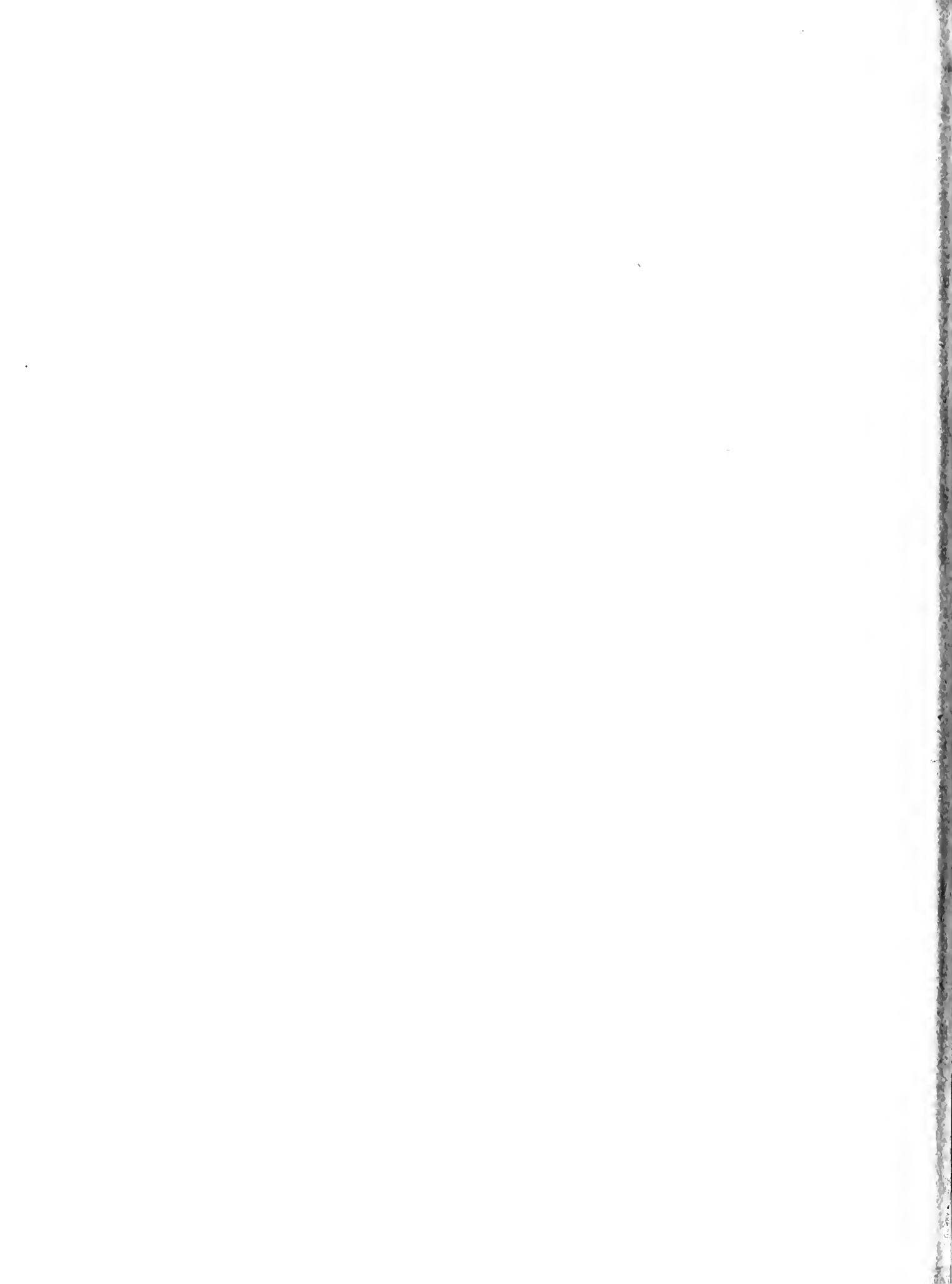
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Experimentally altered and pathologic 804, 921, 988, 1031, 1371, 1445, 1847, 1885, 1948, 1949, 2031, 2764, 2768, 2816, 2817, 2818, 2822, 2827, 2832, 2833, 2837, 2944, 3067, 3233.

Neoplastic none

Sensory organs

Normal 67, 68, 69, 112, 131, 132, 133, 420, 422, 630, 691, 692, 1042, 1045, 1047, 1048, 1049, 1125, 1146, 1190, 1397, 1398, 1417, 1801, 1823, 1824, 1825, 1981, 2210, 2316, 2345, 2346, 2354, 2555, 3133, 3196, 3262, 3278, 3279, 3282, 3285, 3286, 3308, 3309, 3310, 3311, 3410, 3417, 3418, 3419, 3421, 3657, 3726, 3727, 3728, 3729, 3867, 3868.

Experimentally altered and pathologic

369, 3021, 3196, 3657.

Neoplastic none

Skin, annexes, exoskeleton, skin glands

Normal 5, 89, 177, 712, 791, 792, 1019, 1044, 1067, 1354, 1377, 1388, 1726, 1914, 2084, 2085, 2086, 2089, 2211, 2218, 2296, 2369, 2394, 2489, 2570, 2672, 2709, 2725, 2747, 2760, 2784, 2858, 2930, 3020, 2062, 3276, 3286, 3324, 3325, 3326, 3350, 3398, 3508, 3667, 3699, 3700, 3701, 3703, 3750, 3863, 3864, 3965, 3993a.

Experimentally altered and pathologic 120, 154, 724, 2369, 2370, 2563, 3105, 3703, 3768, 3979.

Neoplastic 162, 162a, 412, 425, 712, 2369, 2871, 3506, 3770.

Teeth and gingiva

Normal 79, 318a, 1191, 1192, 1194, 1600, 1936, 2148, 2348, 2349, 2351, 2353, 2383, 2384, 2710, 3096, 3138, 3294, 3295, 3296, 3297, 3298, 3299, 3300, 3302, 3385, 3469, 3579, 3618, 3619, 3622, 3623, 3826, 4025

Experimentally altered and pathologic 1192, 1194, 1195, 1598, 2148, 2149, 2348, 2349, 2350, 2352, 2353, 3296, 3301, 3619, 3620, 3621.

Neoplastic none

Urinary system

Normal 148d, 234, 252, 298, 777, 778, 789, 790, 1167, 1269, 1270, 1487, 1488, 1489, 1490, 1934, 2088, 2635, 2712, 2713, 2714, 2715, 2718, 2719, 2721, 2823, 2838, 2839, 3022, 3048, 3049, 3069, 3071, 3073, 3182, 3433, 3434, 3792, 3802, 3859, 3993c.

Experimentally altered and pathologic 2798, 3048.

Neoplastic none

Plant

Thallophyta (fungi, yeast, algae) 12a, 13, 14, 91, 179, 181, 182, 411, 464, 470, 471, 473, 487, 549, 626, 898, 899, 900, 901, 902, 1043, 1251, 1499, 1500, 1501, 1525, 1589, 1601, 1602, 1603, 1611, 1612, 1755, 1761, 1915, 1930, 2181, 2227, 2229, 2292, 2302, 2303, 2306, 2309, 2311, 2312, 2367, 2440, 2506, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2876, 3102, 3107, 3189, 3260, 3401, 3488, 3639, 3640, 3667, 3694, 3793, 3955, 4008, 4009, 4010.

Bryophyta (mosses) 1068, 2308.

Pteridophyta (ferns) 1235, 2878.

Spermatophyta (flowering plants) 773, 1006, 1007, 1008, 1009, 1150, 1530, 1531, 1532, 1533, 1585, 1619, 2201, 2502, 3797, 3869.

Members

Root 2510, 3095, 3149, 3796.

Leaf 1235, 2510.

Stem 459, 1009, 1217, 1235, 1619, 2201, 2203, 2204, 2205, 2366, 2510, 3749, 3794, 3796, 3797, 3869.

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--Non-biological applications--

Solid surfaces

Poly-crystalline metals

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3344, 3347, 3631, 3785, 3851, 3888, 3926.
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 483, 589, 605, 645, 700, 701, 704, 706,
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 1300, 1368, 1428, 1451, 1462, 1464, 1465,
 1503, 1579, 1896, 1944, 1958, 2015, 2055,
 2258, 2282, 2368, 2426, 2448, 2616, 2619,
 2638, 2729, 2780, 2898, 3118, 3130, 3197,
 3206, 3246, 3247, 3248, 3631, 3636, 3637,
 3638, 3693, 3710, 3810, 3874, 3875, 3883,
 3904, 4034.

Non-ferrous metals

Copper base 637, 772, 807, 842, 843,
 1099, 1244, 1819, 1868, 2065, 2072,
 2473, 2643, 2644, 2646, 2905, 2907,
 3207, 3208, 3212, 3240, 3273, 3595,
 3598, 3601, 3813, 3850, 3928.

Aluminum base 262, 566, 570, 593, 607,
 608, 609, 610, 637, 640, 642, 643, 644,
 757, 1139, 1261, 1575, 1787, 1929, 1932,
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 2278, 2473, 2595, 2602, 2840, 3204,
 3205, 3208, 3209, 3211, 3212, 3598,
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 2565, 2609, 2906, 2947, 3009, 3179,
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Metal single crystals

1544b, 1694, 2382, 2422, 2473, 3532, 3554,
 3556, 3557, 3690, 3996, 3999, 4005.

Glasses (including glazes, porcelains, etc.)

66, 372, 374, 577, 580, 583, 584, 585,
 586, 1069, 1556, 1939, 2028, 2154, 2873,
 3171, 3289, 3371, 3578, 3654, 3655.

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Ceramics (see also soils and clays) 917,
 1322, 1796, 1884, 2019, 2777, 2781,
 3150, 3384.

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 254, 283, 286, 289, 454, 461, 573, 678,
 723, 729, 746, 750, 760, 840, 940, 942,
 985, 1097, 1098, 1158, 1342, 1343,
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 1544a, 1559, 1561a, 1581, 1608, 1649,
 1651, 1652, 1655, 1676, 1696, 1729,
 1800, 1870, 1876, 1947, 1979, 2013,
 2030, 2098, 2152, 2259, 2363, 2388,
 2425, 2448, 2478, 2600, 2609, 2761,
 2769, 2772, 2773, 2898, 3099, 3215,
 3292, 3348, 3374, 3542, 3570, 3574,
 3586, 3588, 3589, 3592, 3594, 3755,
 3783, 3814.

Sintered substances 1421, 1422, 2013,
 2258, 2782.

Dielectric materials (barium titanate)
 none

Miscellaneous crystalline solids 38,
 47, 48, 621, 702, 813, 838, 1697,
 1808, 1905, 1937, 2232, 2342, 2603,
 2622, 2663, 2664, 2727, 2762, 2763,
 2765, 2777, 2894, 2908, 3025, 3139,
 3264, 3307, 3692, 3787, 3807, 3881.

Organic solids other than fibers or films

Rubbers 25, 440, 477, 667b, 693, 758,
 925, 1037, 1180, 1444, 1618, 2082,
 2315, 3027, 3292, 3507, 3509, 3531,
 3537.

Miscellaneous plastics 418, 461a,
 1598, 1772, 2283, 2284, 2355, 2647,
 3080, 3100, 3358, 3389, 3513, 3590.

Carbon surfaces 1908, 1909, 3081.

Thin films and fibers

Science and technology of thin films and
 fibers 66a, 89a, 122, 476a, 488, 667, 957.

1144, 1158a, 1387, 1551, 1632, 1831, 1868,
 1869, 1887, 1888, 1889, 1897, 1933, 1946,
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 3334, 3582, 3760, 3761, 3813, 3960.

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 1656, 1657, 1728, 1766, 1840, 2112, 2246,
 2267, 2906, 3046, 3047, 3081, 3171, 3268,
 3335, 3336, 3580, 3600, 3601, 3739, 3740,
 3901, 3902, 4001.

Thin oxide films (including replicas)
 286, 645, 704, 705, 706, 1096, 1134,
 1559, 1561a, 1562, 1608, 2388, 2432,
 3273, 3924, 3998, 4000, 4002.

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 1996, 1997, 1998, 1999, 2000, 2001, 2010,
 2172, 2202, 2265, 2280, 2355, 2450, 2451,
 2506, 2507, 2522, 2523, 2723, 2724, 2877,
 2918, 2919, 2920, 2922, 2923, 2925, 2926,
 3053, 3054, 3109, 3110, 3120, 3121, 3395,
 3396, 3397, 3683, 3687, 3688, 3689, 3749,
 3760, 3761, 3795, 3796, 3842, 3959.

Animal fibers (wool, silk, leather, etc.)
 122, 175, 443, 1019, 1081a, 1203, 1359,
 1361, 1830, 1935, 1996, 2087, 2286, 2296,
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 2111, 2333, 2487, 2759, 3083, 3103, 3503,
 3762, 3765, 3930, 3939.

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 4, 41, 42, 89a, 106, 368, 426, 478, 478a,
 535, 628, 683, 714, 932, 1100, 1301,
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 2942, 3060, 3351, 3471, 3507, 3515, 3527,
 3539, 3544, 3546, 3549, 3550, 3553, 3554,
 3556, 3558, 3560, 3562, 3617, 3624, 3660,
 3704, 3706, 3763, 3764, 3805, 3815, 4041.

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 451, 463, 721, 1206, 1696, 1747, 1870,
 1908, 1909, 2257, 2407, 3023, 3195, 3757,
 3758, 3764.

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Metallic 37, 246, 605, 917, 1021, 1182,
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 2042, 2250, 2339, 2368, 2382, 2476, 2478,
 2565, 2641, 3065, 3150, 3200, 3464, 3540,
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2371, 2372, 2373, 2418, 2645, 4050.
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1874, 1938, 1948, 1949, 2025, 2063, 2066,
2067, 2073, 2161, 2233, 2371, 2639, 2640,
2649, 2764, 2768, 2770, 2774, 2816, 2821,
3094, 3367, 3548, 3570, 3589, 3591, 3670,
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1848, 1900, 1964, 1980, 2003, 2019, 2060,
2061, 2263, 2343, 2344, 2399, 2432, 2541,
2553, 2554, 2605, 2606, 2763, 2765, 2776,
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